

a1 continuation of U.S. Serial No. 08/539,871 filed 6 October 1995, now U.S. Patent No. 5,803,909.--

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Please amend the paragraph bridging pages 4 and 5 of the English-language specification (page 4, line 27 through page 5, line 9) as follows.

--(Second Problem)

It has hitherto been known to optically measure the cerebral cortex under the skull with an optical spot by means of a light generating and receiving element and a fiber, but measurement of an image of a hemodynamic state covered with the protective tissues such as skin tissues and bone tissues, that is, measurement with a plurality of measuring points, has been neither disclosed nor suggested.--

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**IN THE CLAIMS:**

Please cancel original claims 1-27 without prejudice or disclaimer.

Please amend Claims 30, 31 and 33-38 as follows.

G3 30.(Once Amended) A living body optical measurement system according to claim 28, comprising a logarithmic amplifier and a differential amplifier, wherein the light detection signal is logarithmically amplified and then a logarithmic difference signal is generated by the differential amplifier.

31.(Once Amended) A living body optical measurement system according to claim 28, wherein said light irradiation means includes an optical fiber for connecting